

The following listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. - 11. (canceled)

12. (currently amended) A purified nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence which encodes the amino acid sequence ~~as set forth in of SEQ ID NO:2; and~~
- (b) a nucleotide sequence which hybridizes under conditions of high stringency to the complement of a second nucleic acid molecule which encodes an amino acid sequence of SEQ ID NO:2, wherein high stringency conditions are 0.1X SSC at about 68°C, and
- (c) ~~a nucleotide sequence which hybridizes under conditions of moderate stringency to the complement of a second nucleic acid molecule of SEQ ID NO:1, wherein moderate stringency conditions are 0.2X SSC/1% SDS at about 42°C;~~

wherein the nucleotide sequence is a protozoan or coccidian sequence and sequences of part (b) and part (c) encode encodes an amino acid sequence that has at least 90 80% identity to the amino acid sequence of SEQ ID NO:2.

13. (previously amended) An expression vector for expressing a coccidian CKI protein in a recombinant host cell wherein said expression vector comprises the nucleic acid molecule of claim 12.

14. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 13.

15. (previously amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfected the expression vector of claim 13 in a suitable host cell; and,
- (b) culturing the host cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

16. (previously amended) An isolated nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises the nucleotide sequence of SEQ ID NO:1.

17. (previously amended) An expression vector for expressing a coccidian protein in a recombinant cell wherein said expression vector comprises the nucleic acid molecule of claim 16.

18. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 17.

19. (previously amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfected the expression vector of claim 17 into a suitable host cell; and
- (b) culturing the host cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

20. - 37. (canceled)

38. (currently amended) A purified nucleic acid molecule of claim 12, wherein said nucleic acid molecule comprises a nucleotide sequence which encodes the amino acid sequence ~~as set forth in~~ of SEQ ID NO:2.